BREEZE-S

User Manual

BREEZE-S4

BREEZE-S3

Designed and manufactured by

AFIKIM
ELECTRIC VEHICLES

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WARNING

Read the User Manual carefully before operating the ***Breeze S***.
If you do not fully understand any part of this manual, please contact your dealer or any of our Service Centres.
Read this manual step by step, as injury or damage may occur from misuse!

WARNING

Electromagnetic Interference ("EMI") can cause powered vehicles to behave erratically, which could be dangerous to the user.
For your safety and protection, it is IMPERATIVE that you take time to read Chapter 10 ("EMI WARNING") before operating the ***Breeze S***.

Serial Number and Manufacturer's data are fixed at the front, on the plastic mud guard cover on the metal label of the ***Breeze S***.
(See 4.6 in figure 3, page 18)

WARRANTY

AFIKIM ELECTRIC VEHICLES strives continuously to improve its products, their quality and reliability, in constant effort to ensure its customers' satisfaction as well as its place in the market.
Warranty for the ***Breeze S*** is subject to your local distributor's warranty.

CE CERTIFICATION

The Afikim Electric Vehicles Ref. Registration Number with the Competent Authority (UK) Is: CA000292.

Our Authorized Representative with the Competent Authorities is:
MEDES LTD., POB 231
Stanmore, Middlesex, HA7 4YA, England
TEL/FAX: 0044-181-954-9964

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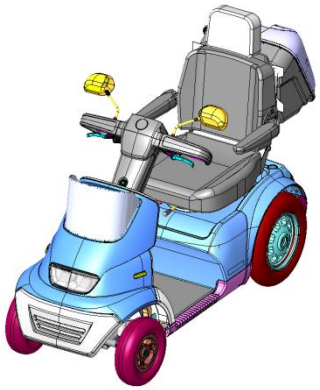
CHAPTER 1 – OVERVIEW OF THE *Breeze S* (MAIN FEATURES)

Congratulations on choosing the ***Breeze S*** as your electrically powered scooter.
The ***Breeze S*** is a scooter for elderly and disabled persons, and for fun and sport.
Scooter classification: Class B in accordance with EN12184.
The ***Breeze S*** is designed for a maximum occupant mass of 160 kg (352 lbs) with 3 wheels, and 200Kg (440 lbs) with 4 Wheels.).
The ***Breeze S*** is an outdoor scooter designed to work in normal environmental conditions from very cold temperatures (-30ºC/-22ºF) to very hot temperatures (+45ºC/+113ºF).
The ***Breeze S*** will operate in light rain showers, but extended use is not recommended in *heavy rain or snow.*
The ***Breeze S*** is easy to operate. The relatively large wheels let the user drive on unpaved roads, over moderately rough terrain and over obstacles as high as 5” (12 cm).
Refer to Appendix A: Specification Sheet (Page 30) for the required tyre pressure.
The ***Breeze S*** maximum **safe** slope is: 11.3º (20%).
The braking system stops the ***Breeze S*** smoothly and within a short distance after the throttle control lever is released.
The ***Breeze S*** is equipped with both front and rear shock absorbers to give the user a comfortable and smooth drive, even when using the vehicle on moderately rough roads.
A standard handbrake is also provided for backup.
The seat is spacious and comfortable, and can be rotated for easy access (standard seats). It can be adjusted forward and backward. The seat can also be adjusted up and down by a technician.
All controls are conveniently mounted on the tiller and are simple to operate.
Under normal conditions, the ***Breeze S*** can travel approximately 45 km (30 miles) before the batteries require recharging.
After reading through this entire manual and before using the ***Breeze S***, do a visual check of all the parts of the vehicle, to make sure that there is no visible damage. If you have any questions or concerns, contact your dealer.



The ***Breeze S*** was developed to use maintenance-free sealed batteries only.

A Maintenance Manual is available for trained technicians.

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CHAPTER 2 – SAFETY SYMBOLS FOR THE *Breeze S*

WARNING! An authorized supplier or qualified technician must perform the initial setup of this scooter, and must perform all of the procedures in this manual.

The symbols below are used throughout this user's manual and on the scooter to identify warnings and important information. It is very important for you to read them and understand them completely.

WARNING! Indicates a potentially hazardous condition/situation. Failure to follow designated procedures can cause either personal injury, component damage, or malfunction.
On the scooter, this is a triangular black symbol.

MANDATORY! These actions must be performed as specified. Failure to perform mandatory actions can cause personal injury and/or equipment damage. On the scooter, this is a white symbol on a dark background.

PROHIBITED! These actions are prohibited. These actions must not be performed at any time or under any circumstances. Performing a prohibited action can cause personal injury and/or equipment damage. On the scooter, this is a black symbol with a circle and slash.

Please note and strictly adhere to the following Safety Instructions. Additional Warnings and Notices are printed in this user manual; it is imperative that you read carefully all chapters of this manual before operating the ***Breeze S*.** It is also advisable to refresh your memory by re-reading this manual periodically.

Get acquainted with the ***Breeze S*** and its operational features before driving it.
Drive slowly (speed limit dial set to MIN) until you get used to the ***Breeze S***, to its various functions, safety features, and to its braking capabilities and limitations.

Watch carefully for pedestrians and drive your ***Breeze S*** accordingly.
In crowded areas, always drive with the speed limit dial set to MIN.
Drive only where permitted according to all applicable local laws and ordinances. ***Breeze S*** is 65 cm (25.5") wide. Take great care not to hit persons or any objects around the vehicle.

Never remove any of the *Breeze S* safety parts such as fenders, plastic covers or emergency brake lever.
Never remove any of the **Warning labels.** If any of the Warning labels is removed, gets worn off or painted over, etc. ask your dealer to supply you with a new label.

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Never put your hands, fingers, or legs into any moving parts or under any protective cover, since moving parts and hot surfaces are under those covers.

When making adjustments (folding the seat back, adjusting the armrest, moving the seat forward or backward, adjusting the tiller distance), as well as when squeezing the throttle control lever or handbrake, always take care that your hands and fingers are not trapped between any of the moving parts.
When moving the tiller forward or backward, be careful not to trap your fingers in the mechanism.

Never load the ***Breeze S*** with more than 160 kg (352 lbs) or 200 kg (440 lbs), depending on the model) total load (user weight and all other loads combined, including baskets).
The load in the rear basket must not exceed 10 kg (22 lbs).
The load in the front basket must not exceed 8 kg (17.6 lbs).
The ***Breeze S*** is designed to carry ONE person only on the Single Seat model. Never operate it with an additional person on board, including a child.

Never inflate the ***Breeze S*** tyres more than the manufacturer's recommended pressure shown on the tyres.

Never use the ***Breeze S*** on stairs.
Never try to go over an obstacle that is more than the maximum recommended slope angle and obstacle height given in the specification sheet. When driving over an obstacle, always drive so that the front of the ***Breeze S*** is facing the obstacle.

If for any reason the ***Breeze S*** does not stop when you release the throttle control lever, or takes longer to stop than it should (3 meters on a level surface), immediately use the handbrake to stop the ***Breeze S***, turn the main key switch to OFF, and contact your dealer.

Do not use the ***Breeze S*** in heavy rain or extreme humidity, or at temperatures below -30ºC (-22ºF) or above +45ºC (+113ºF).

The seat weighs 20 kg (44 lbs). Each battery weighs a minimum of 23 kg (50.6 lbs). Be careful when lifting the seat and the batteries.
See instruction for lifting the seat and the batteries in Chapter 8: Maintenance, and Chapter 9: Troubleshooting and Repair.
Always lift using your knees and legs, not your back.

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If the ***Breeze S*** is involved in any kind of an accident in which parts are damaged, you must get a qualified technician to examine it before continuing to use it.

Batteries contain lead and acid, which is very corrosive. Batteries must be disposed of in accordance with proper procedures.

When driving, always make sure that the backrest is in its fully upright position.

Use lead acid maintenance-free sealed batteries only.

<u>WARNING!!!</u> Special care must be taken to prevent children from operating the ***Breeze S***.
Do not allow unsupervised children to play near the ***Breeze S*** scooter while the batteries are charging.

Always drive carefully. Adjust your speed according to road conditions.
When turning at high speed, the ***Breeze S*** can become unstable. Before making sharp turns, reduce speed to minimum to prevent roll-over.

The ***Breeze S*** is able to go up slopes higher than the recommended safe slope. However, do not drive on slopes whose incline you do not know. Always drive very slowly and do not drive on the side of such slopes.
Before starting to drive, make sure your emergency brake operates properly.

Do not release either the manual or the manual release lever of the electromagnetic brake (EMB) when the ***Breeze S*** is on a slope.
When on any sort of an incline, never place the ***Breeze S*** in freewheel mode while seated on it or standing next to it.

The lights of the ***Breeze S*** should be on when visibility is reduced, day or night.

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Since your seat upholstery is fire resistant, do not cover it or replace with any upholstery other than upholstery of the same kind.
When removing the battery cover, watch out for hot parts. The motor, axle, EMB, electronic cards and electronic controller might be hot, Do not touch them until you have checked their temperature.

Make sure your fingers are not squeezed between the levers and the rubber grip.

Do not use a cell phone, walkie-talkie, laptop, or other radio transmitter while operating the ***Breeze S***.

Removal of the grounding prong can create electrical hazard. If it is necessary to use a 3-pronged electrical outlet, properly install an approved 2-pronged adapter.

Do not connect an extension cord to the AC/DC converter or to the battery charger.

Keep tools and other metal objects away from the battery terminals. Contact with tools can cause electrical shock.
Do not sit on the ***Breeze S*** when it is on any type of lift/elevation product.

Explosive conditions exist

Disposal and recycling: Contact your authorized dealer for information on proper disposal of your ***Breeze S*** and its packaging.

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Wear safety glasses.

Contains lead.

The battery charger is for indoor use only.

Flammable material. Do not expose to open flame.

At the rear of the ***Breeze S*** is the manual release lever of the EMB. When using this lever, be careful not to touch the surface of the motor, as it could be very hot and cause injury. See the warning label at the rear of the scooter near the lever.

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CHAPTER 3 – SAFETY INSTRUCTIONS for *Breeze S*

GENERAL

MANDATORY! Do not operate your new ***Breeze S*** scooter for the first time without reading and understanding this user manual completely.
Your ***Breeze S*** is a state-of-the-art life-enhancement device designed to increase mobility. We provide an extensive range of products to best fit the individual needs of the user. Please be aware that the final selection and purchasing decision regarding the type of ***Breeze S*** scooter to be used is the responsibility of a user who is capable of making such a decision and of his or her healthcare professional (i.e., medical doctor, physical therapist, etc.).
The contents of this manual are based on the expectation that a mobility device expert has properly fitted the ***Breeze S*** scooter to the user and has assisted the prescribing healthcare professional and/or the authorized dealer to give instructions for the use of the product.
There are certain situations, including some medical conditions, where the user will need to practice operating the ***Breeze S*** in the presence of a trained attendant. A trained attendant can be defined as a family member or care professional specially trained in assisting a user in various daily living activities.
As you begin using your ***Breeze S*** during daily activities, you will probably encounter situations in which you will need some practice. Simply take your time and you will soon be in full and confident control as you manoeuvre through doorways, on and off elevators, up and down ramps, and over moderately rough terrain.
Below are some precautions, tips, and other safety considerations that will help you operate the ***Breeze s*** safely.

MODIFICATIONS

We have designed and engineered your ***Breeze S*** to provide maximum mobility and utility. Under no circumstances should you modify, add, remove, or disable any feature, part, or function of your ***Breeze S***.
WARNING! Do not modify your ***Breeze S*** in any way not authorized by the manufacturer. Do not use accessories if they have not been tested or approved by the manufacturer.

REMOVABLE PARTS

WARNING! Do not attempt to lift or move your ***Breeze S*** by any of its removable parts, including the armrests, seat, or shroud.

PRE-RIDE SAFETY CHECK

Get to know the feel of your ***Breeze S*** and its capabilities. We recommend that you perform a safety check before each use to make sure your ***Breeze S*** operates smoothly and safely.
Perform the following inspections prior to using your scooter:

- ✓ Check for proper tyre inflation. Maintain but do not exceed the psi/bar/kPa air pressure rating indicated on each tyre.
- ✓ Check all electrical connections. Make sure they are secure and not corroded.
- ✓ Check all harness connections. Make sure they are secured properly.
- ✓ Check the brakes.
- ✓ Check the battery charge.
- ✓ If you discover a problem, contact your authorized ***Breeze S*** dealer for assistance.

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TYRE INFLATION

Your ***Breeze S*** is equipped with pneumatic tyres. Check the tyre pressure at least once a week. Proper inflation pressures will prolong the life of your tyres and help ensure the smooth operation of your ***Breeze S***.

WARNING! It is critically important that the psi/bar/kPa air pressure indicated on each tyre is maintained at all times. Do not under-inflate or over-inflate your tyres. Under-inflation may result in loss of control, and over-inflation may burst the tyre. Failure to maintain the indicated pressure rating at all times may result in tyre and/or wheel failure.

WARNING! Inflate your scooter tyres from a regulated air source with an attached pressure gauge

NOTE: If the tyres on your Breeze S are marked with a psi rating only, use the following conversion formulas to find the bar or kPa rating:

bar = psi x 0.06895

kPa = psi x 6.89476.

WEIGHT LIMITATIONS

Your scooter is rated for a maximum weight capacity. Refer to Appendix A – Specification Sheet for details.

MANDATORY! Stay within the specified weight capacity for your ***Breeze S***. Exceeding the weight capacity voids your warranty. We will not be held responsible for injuries and/or property damage resulting from failure to observe weight limitations.

WARNING! Do not carry passengers on your scooter. Carrying passengers on your ***Breeze S*** may result in instability.

INCLINE INFORMATION

More and more buildings have ramps with specified degrees of inclination, designed for easy and safe access. Some ramps may have turning switchbacks (180-degree turns) that require you to have good cornering skills on your ***Breeze S***.

✓ Proceed with extreme caution as you approach the downgrade of a ramp or incline.

✓ Take wide turns with your ***Breeze S*** around any tight corners. If you do that, the scooter's rear wheels will follow a wide arc. Do not cut the corner short, and do not bump into or get hung up on any railing corners.

✓ When driving down a ramp, keep the ***Breeze S*** scooter's speed adjustment set to the slowest speed setting to ensure a safely controlled descent.

✓ Avoid sudden stops and starts.

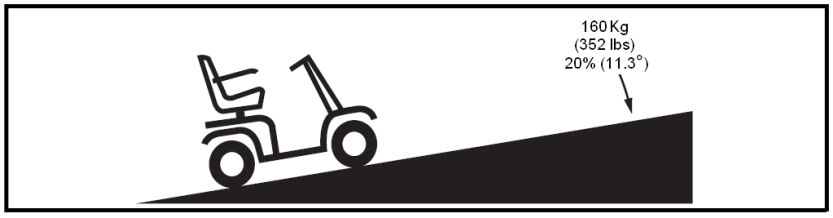

Figure A. Maximum Recommended Incline Angle

When driving up an incline, try to keep your ***Breeze S*** moving. If you must stop, start up again slowly, and then accelerate cautiously. When driving down an incline, set the speed switch to MIN and drive forward only. If your ***Breeze S*** starts to move down the incline faster than you want, allow it to come to a complete stop by releasing the throttle control lever, then push the throttle control lever forward slightly to ensure a safely controlled descent.

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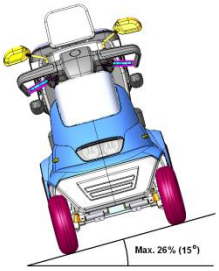
WARNING! When on any incline, never place the ***Breeze S*** in freewheel mode while seated on it or standing next to it.
WARNING! When climbing an incline, do not zigzag or drive up at an angle.
Always drive your ***Breeze S*** scooter straight up the incline. This greatly reduces the possibility of tipping over or a fall. Always exercise extreme caution when negotiating an incline.
WARNING! Do not drive your ***Breeze S*** across an incline or diagonally up or down an incline; if possible, do not stop while driving up or down an incline.



WARNING! Do not drive up or down a potentially hazardous incline (e.g., areas covered with snow, ice, cut grass, or wet leaves).

WARNING!
Even though your ***Breeze S*** is capable of climbing slopes greater than those illustrated in Figure A, do not, under any circumstances, exceed the incline guidelines or any other specifications presented in this manual. Doing so could cause your ***Breeze S*** to become unstable.
Note that public accesses ramps are not subject to government regulation in all countries, and therefore do not necessarily have the same standard degree of slope. Other inclines may be natural or not be designed specifically for scooters. Figure A illustrates your ***Breeze S***'s stability and its ability to climb includes under various weight loads and under controlled testing conditions.
These tests were conducted with the ***Breeze S***'s seat in the highest position and in its farthest rearward position. Use this information as a guideline. Your ***Breeze S***'s ability to travel up inclines is affected by your weight, scooter speed, your angle of approach to the incline, and your ***Breeze S*** setup.
WARNING! Any attempt to go up or down a slope steeper than shown in Figure-A may make your ***Breeze S*** unstable and cause it to tip.
WARNING! Never carry an oxygen tank weighing more than 15 lbs (6.8 kg). Never put more than 8 Kg (17.6 lbs) in the front basket or more than 10 Kg (22 lbs) in the rear basket.

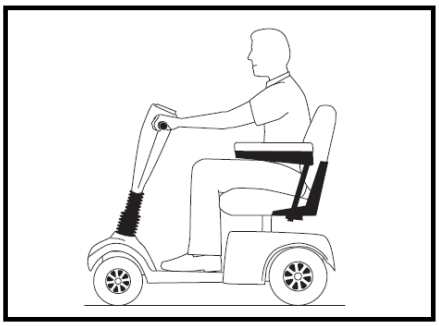


Figure B. Normal Driving Position

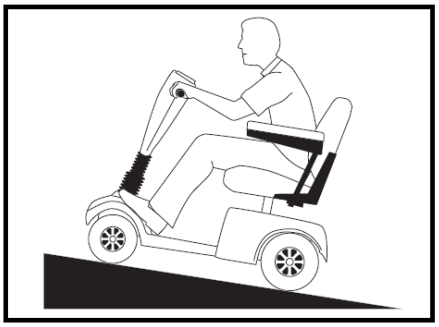


Figure C. Increased Stability Drive Position

When you approach an incline, it is best to lean forward. **See Figures B and C**. This shifts the centre of gravity of you and your ***Breeze S*** toward the front of the ***Breeze S*** for improved stability.
NOTE: If the throttle control lever is released while you are moving forward up a ramp, the Breeze S may roll back approximately 1 foot (30 cm) before the brake engages. If the throttle control lever is released while you are moving in reverse, the Breeze S may roll back approximately 3 feet (one meter) before the brake engages.

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CORNERING INFORMATION

Excessively high cornering speeds can result in tipping. Factors that affect the possibility of tipping include, but are not limited to, cornering speed, steering angle (how sharply you are turning), uneven road surfaces, inclined road surfaces, riding from an area of low traction to an area of high traction (such as passing from a grassy area to a paved area – especially at high speed while turning), and abrupt changes of direction. High cornering speeds are not recommended. If you feel that you may tip over in a corner, reduce your speed and steering angle (i.e., lessen the sharpness of the turn) to prevent your ***Breeze S*** from tipping.

WARNING! When cornering sharply, reduce your speed and maintain a stable centre of gravity. When using your ***Breeze S*** at higher speeds, do not corner sharply. This greatly reduces the possibility of a tip or fall. Always exercise your common sense when cornering.

BRAKING INFORMATION

Your ***Breeze S*** is equipped with two powerful braking systems:

✓ Regenerative: Uses electricity to rapidly slow the vehicle when the throttle control lever returns to the centre/stop position.

✓ Park Brake: Activates automatically after regenerative braking slows the vehicle to a near stop, or when power is removed from the system for any reason.

OUTDOOR DRIVING SURFACES

✓ Your ***Breeze S*** is designed to provide optimum stability under normal driving conditions, on dry, level surfaces of concrete, tarmac, or asphalt. However, we recognize that there will be times when you will encounter other surfaces. For this reason, your ***Breeze S*** is designed to perform well on packed soil, grass, and gravel. Feel free to use your ***Breeze S*** safely on lawns and in parks.

✓ Reduce your ***Breeze S*** speed when driving on uneven terrain and/or soft surfaces.

✓ Avoid tall grass that can become tangled in the running gear.

✓ Avoid loosely packed gravel and sand.

✓ If you feel unsure about a driving surface, avoid it.

PUBLIC STREETS AND ROADWAYS

WARNING! Do not operate your ***Breeze S*** on public streets or roadways.

It may be difficult for traffic to see you when you are seated on your ***Breeze S***. Obey all local pedestrian traffic rules. Wait until your path is clear of traffic, and then proceed with extreme caution.

STATIONARY OBSTACLES (STEPS, CURBS, ETC.)

WARNING! Do not drive near raised surfaces, unprotected ledges, and/or drop-offs (curbs, porches, stairs, etc.).

WARNING! Do not try to go up or down an obstacle that is too high.

WARNING! Do not try to go backward down any step, curb, or other obstacle. This may cause the ***Breeze S*** to tip.

WARNING! Be sure your ***Breeze s*** is travelling perpendicular to any curb you may be required to go up or down.

WARNING! Do not attempt to negotiate a curb that is higher than 12 cm (5").

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PRECAUTIONS DURING INCLEMENT WEATHER

Avoid exposing your ***Breeze S*** to inclement weather.
If you are suddenly caught up in rain, snow, severe cold or heat while operating your ***Breeze S***, proceed to shelter at the earliest opportunity. Thoroughly dry your ***Breeze S*** before storing, charging, or operating it.
PROHIBITED! Operating in rain, snow, salt, mist/spray conditions, and on icy slippery surfaces can have an adverse affect on the electrical system. Maintain and store your ***Breeze S*** in dry and clean conditions.
WARNING! Prolonged exposure to extreme hot or cold may affect the temperature of parts of the ***Breeze S***, possibly resulting in skin irritation. Exercise caution when using your ***Breeze S*** in extremely hot or cold conditions or when exposing your ***Breeze S*** to direct sunlight for prolonged periods of time.

FREEWHEEL MODE

Your ***Breeze S*** is equipped with a manual freewheel lever that, when pushed forward, allows the ***Breeze S*** to be pushed. For more information about how to place your ***Breeze S*** in and out of freewheel mode, see Chapter 4 – General description of the ***Breeze S***.
WARNING! When your ***Breeze S*** is in freewheel mode, the parking system is disengaged.

- ✓ Disengage the drive motors only on a level surface.
- ✓ Ensure the key is removed from the key switch.
- ✓ Stand beside the ***Breeze S*** to engage or disengage freewheel mode. Never do this while sitting on the ***Breeze S***.
- ✓ After you have finished pushing your ***Breeze S***, always return it to the drive mode to lock the brakes (pull the manual freewheel lever backward).
- ✓ An added feature built into the ***Breeze S*** is "**push-too-fast**" protection, which safeguards it against gaining excessive speed while in freewheel mode.

Push-too-fast operates in two different modes:

- ✓ If the key is in the OFF position while the ***Breeze S*** is in freewheel mode, the ***Breeze S***'s controller activates regenerative braking when it is pushed faster than the pre-programmed maximum threshold. In this case, the controller is acting as a speed governor.
- ✓ If the key is in the ON position while the ***Breeze S*** is in freewheel mode, you will encounter considerable resistance at any speed. This prevents the ***Breeze S*** from gaining unwanted momentum should the freewheel lever be raised inadvertently while you are driving the ***Breeze S***.
- ✓ When using this lever, be careful not to touch the internal surface of the motor, as it could be very hot and cause injury. See the warning label at the rear of the scooter near the lever.

STAIRS AND ESCALATORS

Breeze S scooters are not designed to travel up or down stairs or escalators.
Always use an elevator.
WARNING! Do not use your ***Breeze S*** scooter to negotiate steps or escalators.

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DOORS

- ✓ Determine whether the door opens toward or away from you.
- ✓ Use your hand to turn the knob or to push the handle or push-bar.
- ✓ If the door opens away from you, drive your ***Breeze S*** gently and slowly forward to push the door open.
  If the door opens towards you, drive your ***Breeze S*** gently and slowly backwards to pull the door open.

ELEVATORS

Modern elevators have a safety mechanism on the edge of the door that, when pushed, reopens the door(s).

- ✓ If you are in the doorway of an elevator when the door(s) begin to close, push on the rubber door edge or allow the rubber door edge to contact the ***Breeze S***; and the door will reopen.
- ✓ Take care that handbags, packages, or ***Breeze S*** accessories do not become caught in elevator doors.

NOTE*: Sometimes manoeuvring your* ***Breeze S*** *may be difficult in elevators and building entrances. Use caution when attempting to manoeuvre your* ***Breeze S*** *in small spaces, and avoid areas that might pose a problem.*

LIFTS/ELEVATION PRODUCTS

If you travel with your ***Breeze S***, you may find it necessary to use a lift or elevation product to aid in transportation. We recommend that you closely review the manufacturer's instructions, specifications, and safety information before using the lift/elevation product.
WARNING! Never sit on your ***Breeze S*** when it is being used with any type of lift/elevation product. Your ***Breeze S*** was not designed for such use, and any damage or injury resulting from such use is not our responsibility.

BATTERIES (see also Replacing Batteries, page 28)

In addition to following the warnings below, be sure to comply with all other battery handling information.
MANDATORY! Battery posts, terminals, and related accessories contain lead and lead compounds. Wear goggles and gloves when handling batteries, and wash hands after handling.
WARNING! Scooter batteries are heavy. (See Appendix A – Specification Sheet). If you are unable to lift that much weight, be sure to get help. Use proper lifting techniques and avoid lifting beyond your capacity.
WARNING! Always protect the batteries from freezing and never charge a frozen battery.
WARNING! Connect the battery cables correctly. RED (+) cables must be connected to positive (+) battery terminals/posts and BLACK (-) cables must be connected to negative ( ) battery terminals/posts. REPLACE damaged cables immediately. Protective caps must be installed over all battery terminals.
NOTE: *If the battery is damaged or cracked, immediately enclose it in a plastic bag and contact your local waste disposal agency or authorized* ***Breeze S*** *dealer for instructions for disposal or for recycling (which we recommend).*

MOTOR VEHICLE TRANSPORTATION

The manufacturer recommends that you do not remain seated in your ***Breeze S*** while travelling in a motor vehicle. The ***Breeze S*** should be stowed in the boot of a car or in the back of a truck or van with the batteries removed and properly secured. In addition, all removable ***Breeze S*** parts, including the armrests, seat, and shroud, should be removed and/or properly secured during transportation.
WARNING! Although your ***Breeze s*** may be equipped with an optional tie-down belt, this belt is not designed to provide restraint during motor vehicle transportation. Anyone

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travelling in a motor vehicle must be properly secured in the motor vehicle seat with securely fastened seat belts.
WARNING! Do not sit on your ***Breeze S*** while it is in a moving vehicle.
WARNING! Always be sure your ***Breeze S*** and its batteries are properly secured when it is being transported. Batteries must be secured in an upright position, and protective caps must be installed on the battery terminals. Batteries must not be transported with any flammable or combustible items.

TIE-DOWN BELT
Although your ***Breeze S*** may be equipped with an optional tie-down belt, this belt is not designed to provide restraint during motor vehicle transportation. Anyone travelling in a motor vehicle must be properly secured in the motor vehicle seat with securely fastened seat belts.
WARNING! Do not sit on your ***Breeze S*** while it is in a moving vehicle.
WARNING! Ensure your ***Breeze S*** and its batteries are properly secured during transportation.

PREVENTING UNINTENDED TRAVEL
WARNING! If you anticipate being stationary for an extended period of time, turn off the power. This will prevent unexpected travel caused by accidentally touching the throttle control lever.

GETTING ONTO AND OFF YOUR *Breeze S*

Getting onto and off your ***Breeze S*** requires a good sense of balance. Please observe the following safety tips when getting on and off your ***Breeze S***:

- ✓ Remove the key from the key switch.
- ✓ Ensure that your ***Breeze S*** is not in freewheel mode
- ✓ (see Chapter 4 - General description of the ***Breeze S***).
- ✓ Ensure that the seat is secured in place.
- ✓ Pivot the armrests up

WARNING! Position yourself as far back as possible in the seat to prevent the ***Breeze S*** from tipping and causing injury.
WARNING! Avoid putting all of your weight on the ***Breeze S*** armrests, and do not make the armrests bear weight, such as during transfers. Such use may cause the ***Breeze S*** to tip, resulting in a fall from the ***Breeze S*** and/or personal injury.
WARNING! Avoid putting all of your weight on the floorboard. Such use may cause the ***Breeze S*** to tip.

REACHING AND BENDING
Avoid reaching or bending while driving your ***Breeze S***. Bending forward creates the risk of accidentally contacting the throttle control lever. Bending to the side while seated creates the risk of tipping. It is important to maintain a stable centre of gravity to keep the ***Breeze S*** from tipping. We recommend that you determine your personal limitations and practice bending and reaching in the presence of a qualified attendant.
WARNING! Do not bend, lean, or reach for objects if you have to pick them up from the ***Breeze S*** deck or from either side of the ***Breeze S*** such as these may change your centre of gravity and the weight distribution of the ***Breeze S,*** causing it to tip.
PROHIBITED! Keep your hands away from the tyres and wheels when driving. Be aware that loose-fitting clothing can become caught in tyres and wheels.

``

PRESCRIPTION DRUGS/PHYSICAL LIMITATIONS

The ***Breeze S*** user must exercise care and common sense when operating the ***Breeze S***. This includes awareness of safety issues when taking prescription or over-the-counter drugs or when the user has specific physical limitations.

WARNING! Consult your physician if you are taking prescription or over-the-counter medication or if you have certain physical limitations. Some medications and limitations may impair your ability to operate your ***Breeze S*** in a safe manner.

ALCOHOL/SMOKING

The ***Breeze S*** user must exercise care and common sense when operating the ***Breeze S***. This includes awareness of safety issues while under the influence of alcohol, or while smoking.

WARNING! Do not operate your ***Breeze S*** while you are under the influence of alcohol, as this may impair your ability to operate the ***Breeze S*** in a safe manner.

WARNING! The manufacturer strongly recommends that you do not smoke while seated on your ***Breeze S***, although the ***Breeze S*** seat has passed the necessary testing requirements for cigarette smoking. You must adhere to the following safety guidelines if you decide to smoke cigarettes while seated on your ***Breeze S***.

- ✓ Do not leave lit cigarettes unattended.
- ✓ Keep ashtrays a safe distance from the seat cushions.
- ✓ Always make sure cigarettes are completely extinguished before disposal.

ELECTROMAGNETIC AND RADIO FREQUENCY INTERFERENCE (EMI/RFI)

WARNING! Laboratory tests have shown that electromagnetic and radio frequency waves can have an adverse affect on the performance of electrically powered mobility vehicles.

EMI/RFI can come from sources such as cellular phones, mobile two-way radios (such as walkie-talkies), radio stations, TV stations, amateur radio (HAM) transmitters, wireless computer links, microwave signals, paging transmitters and medium-range mobile transceivers used by emergency vehicles. In some cases, they can cause unintended movement or damage to the control system. Every electrically powered mobility vehicle has an immunity (or resistance) to EMI.

The higher the immunity level, the greater the protection against EMI. This product has been tested and has passed at an immunity level of 20 V/M.

WARNING! Be aware that cell phones, two-way radios, laptops, and other types of radio transmitters may cause unintended movement of your electrically powered ***Breeze S*** due to EMI. Exercise caution when using any of these items while operating your ***Breeze S*** and avoid coming into close proximity of radio and TV stations.

WARNING! The addition of accessories or components to an electrically powered mobility vehicle can increase its susceptibility to EMI. Do not modify your ***Breeze S*** in any way not authorized by the manufacturer.

WARNING! The ***Breeze S*** itself can interfere with other electrical devices located nearby, such as alarm systems.

NOTE: *For further information on EMI/RFI refer to chapter 10 or ask your authorized dealer.*

``

CHAPTER 4 – GENERAL DESCRIPTION OF THE *Breeze S*

Note: The numbers in parentheses refer to the parts illustrated on Figures 1, 2, and 3.

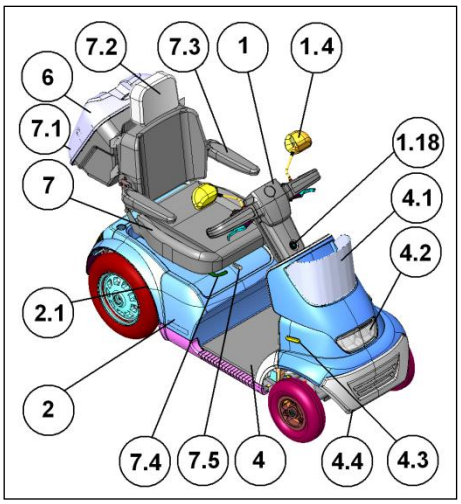

Figure 1

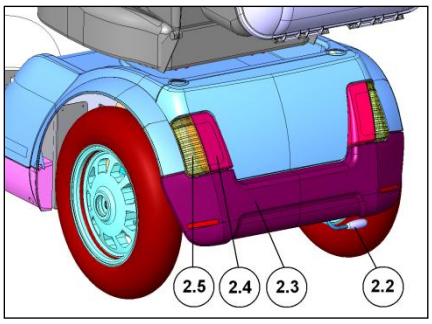

Figure 2

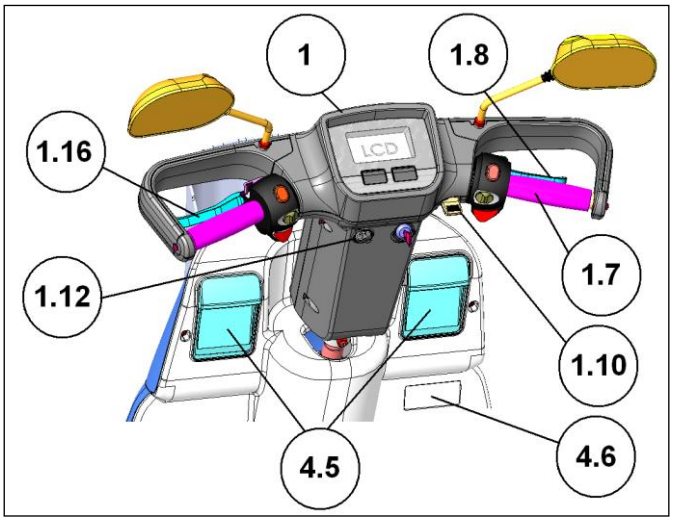

Figure 3

Keys/Cellphone pockets (4.5)	Right & Left
Plate with serial number and manufacturer's data (4.6)	Serial number and manufacturer's data are on a plate on the mud guard in front of your foot.
Tiller (1) / Handlebars (1.7)	Your ***Breeze S*** is designed for either hand operation, but it is delivered with right-hand controls. Left-hand controls can be set up by your dealer.
Mirror (1.4)	Every ***Breeze S*** has either 1 or 2 rear-view mirrors.
Throttle control lever (1.8)	Used to control the ***Breeze S*** speed.
Brake lever (1.16)	Used to brake in emergency conditions or when needed.
Charging socket (1.12)	Used to connect the charger plug to charge the battery. Located on the right side of the handlebar.
Handlebar adjustment lever (1.10)	The handlebar can be adjusted forward or backward. Release the lever, make the adjustment, and return the lever to the locked position.
Buzzer (1.18)	Used to alert the surrounding people when needed.

``

Front basket (4.1)	For carrying parcels and personal effects. Maximum load 8 kg (17.6 lbs).
Headlight (4.2) and front blinkers (4.3)	(A) Headlight for conditions of poor visibility (B) Blinkers for turnings signals
Front bumper (4.4)	
Battery cover (2)	Protects the power unit, electronics and batteries.
Fuses (2.1a, 2.1b)	2.1a - – Main fuse 70A – Semi Automatic 2.1b - – Charge fuse 15A – Semi Automatic Located between the rear wheel and the battery cover.
EMB manual release (2.2)	A manual release lever at the back of the ***Breeze S***. lets you push or pull it. Push / Pull the lever as shown on the label: = Release (Push), = Engaged (Drive). When the lever is in the released position the ***Breeze S*** cannot be operated / driven. **Note**: Never release the lever when the ***Breeze S*** *is on a slope.*
Rear Bumper (2.3)	
Rear pilot & brake lights (2.4)	
Rear blinkers (2.5)	
Seat (7)	The ***Breeze S*** seat is equipped with folding armrests (7.3) to allow convenient access to the seat. The seat itself can be rotated to allow easy access.
Seat backrest (7.1)	
Seat headrest (7.2)	
Armrests (7.3)	Use for comfortable entrance. May be folded upwards
Seat forward/reverse lever (7.4)	Used to move the seat forward and backward.
Seat rotation lever (7.5)	Used to swivel the seat 45° or 90° in either direction.
Seat height adjustment	The seat height must be adjusted by a qualified technician.
Rear box (6)	Maximum load 10 kg (22 lbs).
Floor (4)	Covered with carpet that may be removed for cleaning.

``

CHAPTER 5 – ADJUSTMENT INSTRUCTIONS

(Numbers refer to Figures 4 and 5)

Adjusting the tiller angle (1.7)	Adjust the angle of the tiller as follows: • Release the tiller adjustment lever (1.10), by pushing it down. • Release the lever at the desired place.
Adjusting the handlebar height	Handlebar height can be adjusted about 40mm by a technician.
Seating in the ***Breeze S***	Before attempting to drive the ***Breeze S***, make sure the plug is disconnected from the charging socket (1.12). **<u>Note:</u> While the plug is in the charging socket, the *Breeze S* cannot be operated.** Use the seat rotation lever (7.5) to rotate the seat sideways, and raise the armrest (7.3) to give you easy access to the seat. Use the seat forward/reverse lever (7.4) to adjust the location of the seat.
Handlebars and hand protectors	When driving always keep your hands on the handlebars (1.7) and within the hand protectors (1.6).
Adjusting the shock absorbers to the user.	It is possible to adjust the rear shock absorber to the required load or way of using the Breeze S. If necessary, ask a technician to adjust the absorbers for your needs.

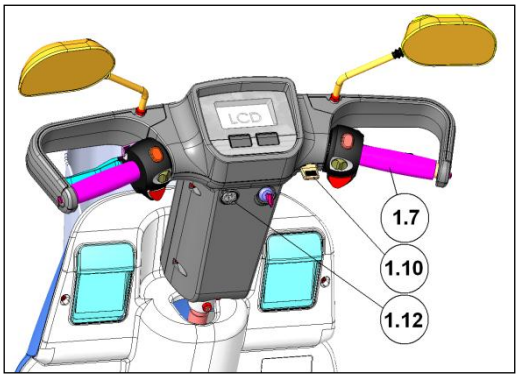

Figure 4

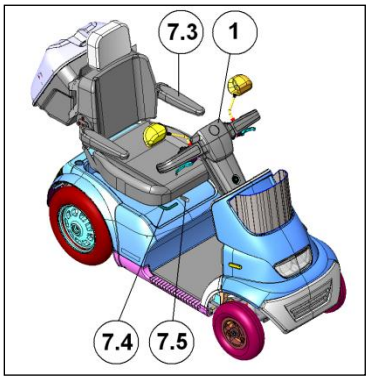

Figure 5

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CHAPTER 6 – OPERATING INSTRUCTIONS
6.1 GENERAL

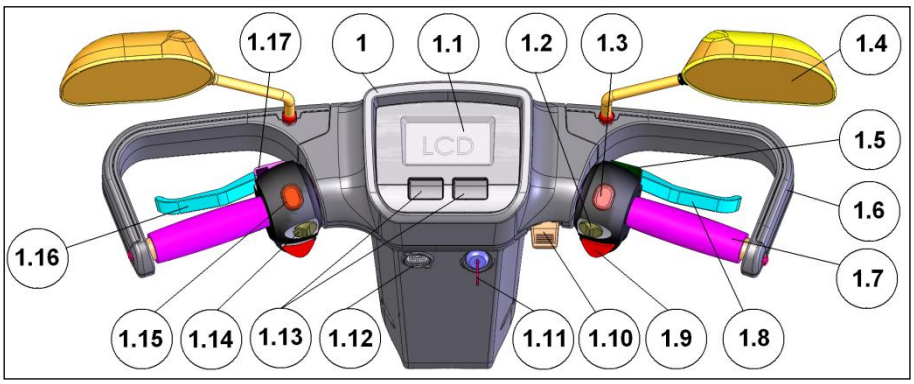

Figure 6

(Numbers refer to Figures 6 and 7)

Key switch (1.11)	• The main key switch is located at the top of the tiller box (1). The key switch has two positions: ✓ **OFF** - The ***Breeze S*** cannot be driven and the EMB is locked. ✓ **ON** - Power is supplied to the ***Breeze S*** and the EMB is released automatically when the throttle control lever is squeezed. To operate the ***Breeze S***, insert the key in the key switch and turn it to ON (clockwise). The switch will remain in this position and the LCD (1.1) will be lit. **Note**: The key switch is used to operate the ***Breeze S***, not for locking.
Automatic shut off	When the key switch is in ON, the control system will be shut off automatically after a few minutes (usually 20) in order to save battery energy. In the case of automatic shut-off, turn the key switch OFF and then ON again.
Adjusting the handbrake	The handbrake cable mechanism can be adjusted by an authorized technician. **The handbrake is part of your safety system.** **DO NOT adjust it yourself—get professional assistance!**
Throttle control lever and manual handbrake	To drive: Gently squeeze the throttle control lever (1.8) until you reach the desired speed. Your speed is directly proportional to the deflection of the throttle control lever. To stop: Release the throttle control lever (1.16). The ***Breeze S*** will stop gradually, automatically. **Note: You can also use the manual handbrake for emergency stopping (1.16).**
Signaling	Before you turn, press the applicable turn signal switch left or right (1.14) To turn off the indicator, press the switch forward. When a turn indicator is activated, the applicable LED (5.3 or 5.4) will flash. Depending on the model, a buzzer may also sound (subject to local regulations). To turn off the indicator, press the button again.
Buzzer buttons (1.9)	Push one of the 2 Buttons (1.9) to activate the buzzer. The buzzer sounds automatically under the following conditions (*except where prohibited by law*),: 1. When reversing 2. When operating the left or right indicator

``

	Remark: It is possible to change the Buzzer functionality by changing a dip switch in the front board .This needs to be done by an authorized technician.
Headlight switch	To turn on the headlight and rear lights, press the Lights button (1.15). When the lights are ON the lights led (5.6) is lit. To turn off the lights, press the button again.
Hazard button (1.17)	The Hazard button activates the all the flashing lights on the ***Breeze S***. To turn off the hazard lights, press the button again. When the hazard lights are activated, both LEDs (5.3 & 5.4) flash.
Inhibit while charging	When the Breeze S is being charged it is in inhibit mode. In this mode it cannot be driven. When being charged signal (5.13) will be lit.
Safe driving / Half speed switch (1.2)	When driving on ramps, high curbs and on sharp turns, drive very slowly and carefully, consider changing the Half Speed Switch (1.2) to Half speed mode. Never try to go over an obstacle that is more than the maximum recommended slope angle and obstacle height given in the specification sheet . **Always drive carefully and adjust your speed to the road conditions.** **Before making sharp turns , reduce the *Breeze S* speed to Half Speed to prevent side roll-over.**
Parking	After stopping the Breeze S, turn the key switch (1.11) to OFF and remove the key. The LCD will turn OFF. **Note: The EMB locks automatically when the throttle control lever is released and the *Breeze S* has come to a complete stop.**

6.2 LCD DISPLAY USE

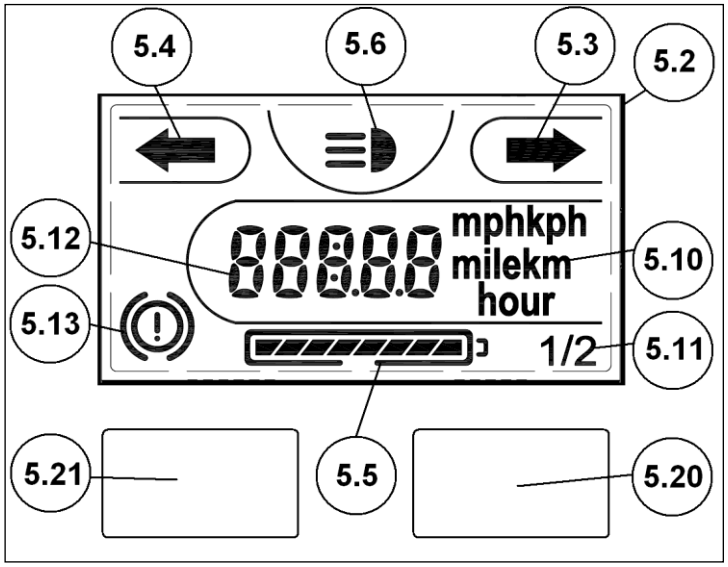

Figure 7

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(Numbers refer to Figures 6 and 7)

LCD DisplayKey	When driving and operating the Breeze S, all the required information is displayed on the LCD screen (1.1). See details below.
Battery status Indicator	The **Battery Capacity Indicator** (5.5) on the LCD screen, displays the remaining battery capacity. Like petrol gauges in cars, the indicator is not absolutely accurate; it is merely a guide to help stop you running out of fuel. The accuracy of the indicator also depends on the type and age of the batteries. When the indicator shows 2-3 bars, recharge batteries as soon as possible. When the indicator displays one blinking bar, recharge immediately, you can only drive a short distance (3-4 km on level surface). The accuracy of the battery indicator reading also depends on the type and age of the batteries.
Fault indicator	The ***Breeze S*** is equipped with fault indication. The fault indication appears as a flashing code of the battery indicator as well as an error code on the LCD screen (5.5). For further details see Breeze Maintenance Manual.
Light indicator	When the main lights are ON (front and rear) a sign will be lit (5.6).
Blinker indicators	When the blinkers are ON, signs will be lit (5.3 and / or 5.4).
Half speed indicator	When the Half Speed switch (1/2) is at the Half Speed position, a sign of "1/2" will be lit (5.11).
Alarm indicator	When one of the following conditions exists: Motor overheating, panic brake was operated or manual release brake is in the OPEN position or electric EMB is opened, the alarm indicator will be lit (5.13).
Speed display (5.12)	The LCD screen digital area will display the speed of the ***Breeze S*****.** The speed is shown in kph or mph. The setting can be done by a technician.
MODE and RESET button	The MODE / RESET button (5.20) will change the digital reading from Speed to Travel Distance or Time. The distance is showed in km. or miles and the time displayed in hours. **(Note: Setting the speed unit can be done by a technician.** When you push the MODE button to the modes: "travel time" and "travel distance" and keep pushing it for more than 7 seconds, the "travel time" and "travel distance" will reset to zero.
Setup button	The Setup button 5.21 is used to set the clock.

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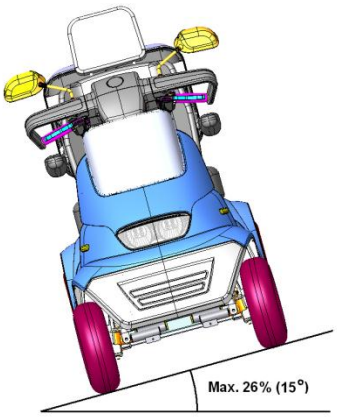
<table>
<tr><td>Clock setup</td><td>When changing to clock mode with MODE the button, press it for 7 seconds and you will enter the Setup mode of the clock.
<u>Adjusting</u> the <u>clock</u> :
Use the left Setup button and the right Mode button as follows:
Every push on Mode changes the time unit and the selected unit flashes.
During the flashing, every push on Setup increases 1 unit.

<table>
<tr><th>Stage</th><th>Display</th><th>Flashing</th></tr>
<tr><td>1</td><td>HH:mm</td><td>mm</td></tr>
<tr><td>2</td><td>HH:mm</td><td>HH</td></tr>
<tr><td>3</td><td>DD.MM or MM.DD</td><td>DD</td></tr>
<tr><td>4</td><td>DD.MM or MM.DD</td><td>MM</td></tr>
<tr><td>5</td><td>20YY</td><td>YY</td></tr>
<tr><td>6</td><td></td><td>Saving the updated time and date</td></tr>
</table>
</td></tr>
</table>

6.3 DRIVING AND GENERAL USE

<table>
<tr><td>Climbing an obstacle</td><td>To climb an Obstacle, drive the Breeze S forward toward the obstacle until the front wheel touches the obstacle, then, maintaining your direction, increase speed.</td></tr>
<tr><td>Driving on slopes and turns</td><td>Before making sharp turns, particularly on inclines, reduce speed to minimum to prevent side roll-over.
The Breeze S is able to go up slopes steeper than the recommended safe slope. Do not drive on includes where you are not sure about the degree of slope. However drive very slowly and avoid side angles higher than 26% (15°).
  </td></tr>
<tr><td>Prior to use</td><td>After reading through this entire manual and before using the Breeze S, do a visual check of all the parts of the vehicle, to make sure that there is no visible damage. If you have any questions or concerns, contact your dealer.</td></tr>
<tr><td>Controller programming</td><td>Several parameters of the Breeze S controller can be programmed. Programming must be done by trained authorized technician only. Incorrect programming can cause abnormal operation of the Breeze S and may result in damage and personal injury.</td></tr>
</table>

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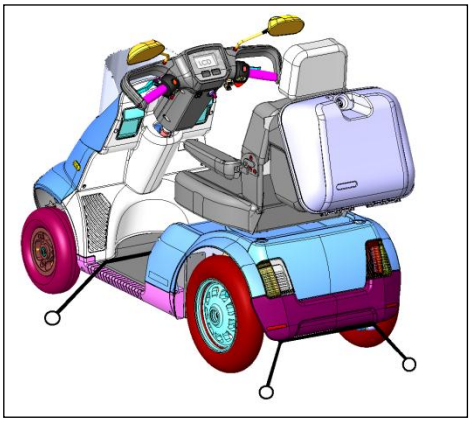
Performance check	A performance check is highly recommended when you first receive your ***Breeze S*** or after a period of not using the ***Breeze S***, as follows: 1. Turn on the key switch. 2. Verify that the LCD display is ON. 3. Slowly squeeze the drive control lever and verify that the ***Breeze S*** travels at a speed that corresponds to the degree to which you are squeezing the lever. 4. Release the throttle control lever and verify that the ***Breeze S*** stops smoothly, and that you hear the click of the EMB engaging. 5. Check that all the buttons on the handlebar work correctly. 6. Switch off the key switch. Your ***Breeze S*** is now ready to drive.
Prior to use	Before using the Breeze S, be sure you know your own weight and the weight of any items you will be carrying on it. The maximum total load is 160 kg (352 lbs) /200 kg (440 lbs). (Depending on the model).
Safety belt	Use a seat belt whenever it is needed or as required by local traffic regulations.
Securing the ***Breeze S*** in motor vehicle for transportation	To transport the ***Breeze S*** in a motor vehicle, it must be secured (see Figure 8). Using standard approved tiding straps, secure the 4 tiding ear plates painted in Yellow (2 at the front and 2 at the rear of the scooter), to the car secure hooks. **Warning: When transporting the *Breeze S*, never let anyone sit on it.**  **Figure 8**
Transportation	To reduce the height of the ***Breeze S*** while transporting it, the seat can be removed as explained in Chapter 8 Maintenance, and the handlebar column can be folded to horizontal position.

``

CHAPTER 7 – CHARGING

Read the charger manual before using it.

Warning : If you use a charger other than the one supplied with your *Breeze S*, ask your dealer for instructions..

CHARGING BATTERIES (See figure10)

1. Insert the charger plug (8) in the charging socket (9) located on the right side of the tiller column.
2. Plug the charger power cord (10) into a wall socket (11).
3. When charging is complete, remove the charger power cord (10) from the wall socket (11) and then remove the charger plug (8) from the charging socket (9).
4. Under ideal storage conditions, batteries that were charged to full capacity and were not used should be recharged every 6 months.

. If you expect not to use your ***Breeze S*** for an extended period of time, we recommend charging it for two days and then disconnecting the batteries.

6. If you have not used your ***Breeze S*** for an extended period of time, charge the batteries for at least 24 hours before driving.

- **Note: There is NO need to disconnect the charging plug immediately after the charging is complete.**
- **However, DO NOT leave the charger connected to the batteries FOR MORE THAN TWO WEEKS.**
- **As long as the charging plug is in the charging socket, the electronic control of the *Breeze S* automatically cuts all power to the electric system and it cannot be driven.**
- **The charger supplied is suitable for charging lead acid dry/gel batteries. Use only the defined type of charger. Before using any other type of charger, check with your dealer.**

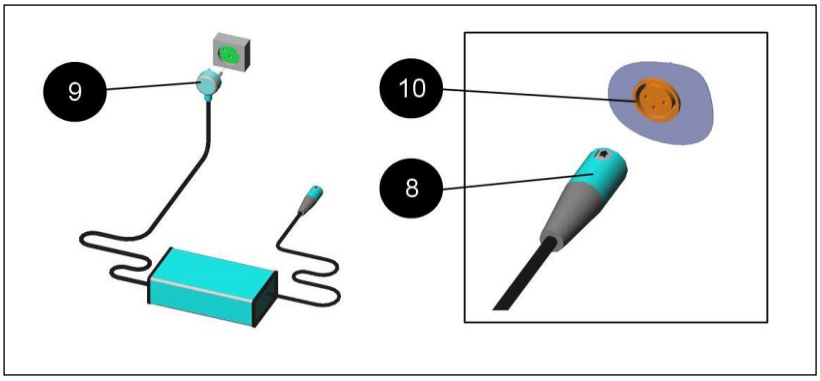


Figure 10

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CHAPTER 8 – MAINTENANCE

Note:

1. Maintenance Manual is available for trained technicians.

2. The numbers in parentheses refer to the parts illustrated in figure 11.

Although the ***Breeze S*** requires very little maintenance, do not neglect it. When performing maintenance procedures on the ***Breeze S***, make sure that it stands on a level surface and that the key is not inserted.

Periodic Maintenance Procedures

✓ **Remark**: For periodic maintenance, no special tools are needed.

No.	Type of Service	Frequency
1	Check air pressure in all tyres.	Every week
2	Check emergency brakes	Every week
3	Check normal driving and stopping	Every Month
4	Check tyre wear	Every Month
5	Check for missing and damaged parts (see Figures 1 through 4).	When first receiving the ***Breeze S*** or after a long time without using it.
6	Check that all screws and parts are secure	Once a year by technician.
7	Replace batteries	• Every 2-3 years, • After about 300-400 full cycles of charge/discharge, • When the distance you can travel on a single charge becomes short, or • after a technician recommends replacing it.
Note: To replace the batteries, the seat and the battery cover (which is located under the seat) must be removed.		
8	Cleaning	External – when needed. Internal – Once a year by technician.

As-required Maintenance Procedures

Type of Service	Frequency
Removing the seat and the Batteries Cover (2)	Turn the seat by turning the lever (7.5) 45º (either direction). The seat can be removed only at this angle. Removing the seat (7) Holding the seat with one hand on the backrest and the other at the front, lift it off the seat-mounting post**.**
	Warning! **The seat weighs 20 kg (44 lbs).** The seat must be lifted by two people or by adequate lifting equipment. Replace the battery cover, re-install it over the seat-mounting post and make sure it is seated properly, then secure it with the five screws.
Removing and replacing the battery cover (2)	To replace the battery cover, re-install it over the seat-mounting post and make sure it is seated properly, then secure it with the four screws (2.6).

``

Batteries	Each battery weighs 23 kg (50.6 lbs). The batteries must be lifted by two people or by adequate lifting equipment.
Tyres	Correct tyre pressure is essential for steering and stability. Check the tyre pressure every two weeks 25 ±2 psi. Breeze 4W front tires: 20±2 psi. Golf wheels tires: 20±2 psi.
Cleaning	Use only a damp cloth and mild detergent for cleaning. Never use a hose, as this may severely damage the power and electronic components.
Replace batteries	**Note!** Batteries must be replaced by trained professionals only. **Warning!** Batteries contain high energy and can spark, resulting in a possible fire hazard. **Warning!** Working with batteries can cause damage and Injury if not done properly. In this procedure, refer to Figure 12. 1. Remove the terminal insulating cap from one battery terminal. 2. Using an 10/13 mm key, unscrew the wiring from the terminal. Take care not to let the key touch any other terminal or metal part, as this could cause damage or injury. 3. Repeat steps 1 and 2 for all the other terminals. 4. Remove the old batteries and install the new ones. 5. Connect the wires of the new batteries as shown in Figure 11 (also shown on the label located near the batteries). 6. Screw down the terminals securely, and replace the insulating caps.

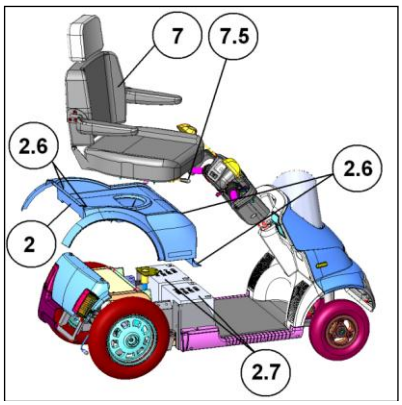

Figure 11

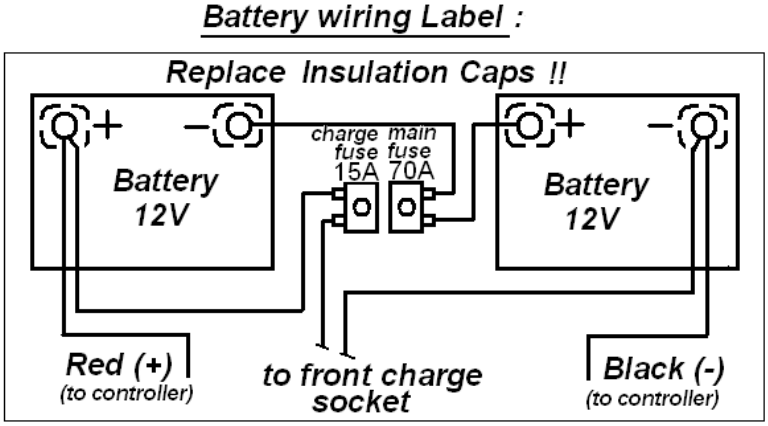

Figure 12

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CHAPTER 9 – TROUBLESHOOTING AND REPAIR

The following table provides troubleshooting and repair instructions for problems that may be encountered when operating the ***Breeze S***. as well as the best way to correct the problem. The table contains three columns:

Symptom	**Probable Cause**	**Remedy**
The problem you are experiencing	The most likely causes, in order of probability (most likely first)	Recommended action to correct each probable cause

Remember: you can contact your dealer at any time for further professional support.

No.	Symptom	Probable Causes	Remedy
1	Flat tyre and unstable driving.	✓ Low air pressure ✓ Puncture	✓ Pump tyre to normal pressure ✓ Repair tyre
2	The battery indicator flashes and the vehicle does not move.	✓ (identified by the fault code)	✓ Call for technical support
4	Handbrake is fully engaged but the vehicle does not stop.	✓ Loose handbrake mechanism	✓ Brake cable needs to be tight. Only by authorized technician.
5	When throttle control lever is released on a level surface, the ***Breeze S*** takes longer than 3 meters to stop.	✓ Controller is faulty or out of adjustment	✓ Call for technical support
6	Key switch is turned ON but the ON light does not come on.	✓ Main fuse 70A popped or electrical fault. (See 2.1– in Fig. 1)	✓ Reset fuse **Note:** Do not reset fuse more than twice. If the symptom still recurs, call your authorized dealer for support.
7	***Breeze S*** does not move when you squeeze the throttle control lever.	✓ Key switch is OFF ✓ Charger is connected to charging socket ✓ The release lever of the EMB is disengaged. ✓ Other inhibitor: Panic brake. ✓ Control system failure	✓ Turn key switch ON ✓ Disconnect charger ✓ Engage the EMB lever. ✓ Turn the key switch OFF and ON again. ✓ Call for technical support
8	Intermittent drive.	✓ Battery capacity is low ✓ Faulty connections ✓ Faulty battery	✓ Charge batteries for at least 18 hours ✓ Remove battery cover and check battery connection. If terminals are corroded, clean them with a damp, clean cloth ✓ If red LEDs are still on, contact your dealer for a replacement battery
9	Main or rear lights or indicator lights are inoperative.	✓ Faulty LED light board or electronics fault	✓ Call technician for assistance.
10	When driving uphill or carrying heavy loads, speed reduces gradually (but scooter still moves).	✓ The Controller became overheated	✓ Stop driving and let controller cool

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CHAPTER 10 – EMI WARNING

All types of electrically powered vehicles, such as powered wheelchairs and motorized scooters (in this text all types will be referred to as “powered vehicles”) may be susceptible to electromagnetic interference (EMI). This is from sources such as radio and TV stations, amateur radio (HAM) transmitters, two-way radios and cellular phones. The interference (from radio wave sources) can cause the powered vehicle to release its brakes, move by itself, or move in unintended direction. It can also damage the powered vehicle’s control system. The intensity of the interfering EM energy can be measured in volts per meter (V/m). Each powered vehicle can resist EMI interfering electromagnetic energy (EM) emitted up to a certain intensity. This is called its “immunity level”. The higher the immunity level, the greater the protection. At this time, current technology is capable of achieving an immunity level that would provide useful protection from the more common sources of radiated EMI. This vehicle as shipped, with no further modification, has an immunity level of 20 V/m.

There are a number of sources of relatively intense electromagnetic fields in the everyday environment. Some of these sources are obvious and easy to avoid. Others are not apparent and exposure is unavoidable. However, we believe that by following the warning listed below, your risk of EMI will be minimized.

The sources of radiated EMI can be broadly classified into three types:

1. Hand-held portable transceivers (transmitters-receivers) with the antenna mounted directly on the transmitting unit. Examples include: citizen band (CB) radios, “walkie talkies”, security, fire and police transceivers, cellular telephones and other personal communication devices.

NOTE: Some cellular telephones and similar devices transmit signals while they are ON, even when not being used.

2. Medium-range mobile transceivers such as those used in police cars, fire trucks, ambulances and taxis. These usually have the antenna mounted on the outside of the vehicle.

3. Long-range transmitters and transceivers such as commercial broadcast transmitters (radio and TV broadcast antenna towers) and amateur (HAM) radios.

NOTE: Other types of hand held devices, such as cordless phones, laptop computers, AM/FM radios, TV sets, CD players, cassette players and small appliances such as electric shavers and hair dryers, as far as we know, are not likely to cause EMI problems to your powered vehicle.

Powered Vehicle Electromagnetic Interference (EMI)

Because EM energy rapidly becomes more intense as one moves closer to the transmitting antenna, the EM field from hand-held radio wave sources (transceivers) are of special concern. It is possible to unintentionally bring high levels of EM energy close to the powered vehicle’s control system while using these devices. This can affect powered vehicle movement and braking.

Therefore, the warnings listed below are recommended to prevent possible interference with the control system of the powered vehicle.

WARNINGS

Electromagnetic interference (EMI) from sources such as radio and TV stations, amateur radio (HAM) transmitters, two-way radios and cellular phones can affect powered vehicles.

Following the warnings listed below should reduce the chance of unintended brake release or powered vehicle movement **which could result in serious injury:**

1) Do not operate hand-held transceivers (transmitters-receivers) such as citizen band (CB) radios, or turn ON personal communication devices such as cellular phones, while the powered vehicle is ON;

2)Be aware of nearby transmitters, such as radio or TV stations and try to avoid coming close to them.

3) On appearance of unintended movements or brake release occurrences, switch the powered vehicle OFF **as it is safe to do so**.

4) Be aware that adding accessories or components, or modifying the powered vehicle, may make it more susceptible to EMI (since there is no easy way to evaluate their effect on the overall immunity level of the powered vehicle).

5) Please report to us all incidents of unintended movement or brake release and note whether there is a source of EMI nearby.

Important information

1) 20 volts per meter (V/m) is a generally achievable and useful immunity level against EMI (as of May 1994). The higher the level the greater the protection;

2) This product delivered to you has an immunity level of 20 V/m.

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Appendix A – Specification Sheet

Type: BREEZE S4 Manufacturer: Kibbutz Afikim 14148, Israel

Maximum occupant mass: 200 kg (for the tests, a 150kg dummy according ISO 7176-11 was used, supplemented by 50 kg weights distributed approximately proportional to the dummy's weight distribution)

(Disclosure information (ISO 7176-15)									
	4*W*		3W			4W		3W	
Standard reference	*Min.*	*Max.*			*Standard reference*	*Min.*	*Max.*		
Overall length with legrest (A)	**1,550 mm**				Seat plane angle	**4 °**			
Overall width (B)	**680 mm**				Effective seat depth (M)				
Folded length(D)					Effective seat width (N)	**460 mm**			
Folded height(C)					Seat surface height at front edge (O)	**430 mm**	**490 mm**		
Total mass (G)	**155 kg**				Backrest angle (P)	**90 °**			
Mass of the heaviest part (H)		**23 kg Battery**			Backrest height (Q)	**390 mm**			
Static stability downhill (T)	**>20°**	**>20°**			Footrest to seat distance (I)				
Static stability uphill (V)	**13°**	**>20°**			Leg to seat surface angle				
Static stability sideways (X)	**10°**	**14°**			Armrest to seat distance (K)				
Energy consumption		**25km**			Front location of armrest structure				
Dynamic stability uphill	**>10°**	**>10°**			Handrim diameter (S)	**25 mm**			
Obstacle climbing	**80 mm**	**120 mm**			Horizontal location of axle (R)				
Maximum speed forward	**km/h**	**15.0 km/h**			Minimum turning radius (Y)	**2,200 mm**			
Minimum braking distance from max speed	**3,000 mm (on the flat)**				Minimum turn-around radius (Z)				
Pneumatic Tyres	Front Tyres Rear Tyres	**4.10/3.50-6"** **3.50-10"**			Charger for charging dry/gel acid battery	24VDC max charge 15 Amp.			
Pressure of front tyres: Pressure of rear tyres:		**1.7 bars** **1.7 bars**							
Battery type Capacity Charger Dimensions	**Lead Acid /Gel/dry, 2x12 V 70 A h, Max.** **Charge current 12Amp.max. Dims. 265mm x 175mm x 230mm**								
Options	✓ Left speed lever. ✓ Pedal operation ✓ Twist speed lever ✓ Canopy ✓ Winter light sides close ✓ Rear attach bracket. ✓ Wide seat 22" ✓ Seat lift column-electric								

Remarks :

* All technical specifications are subject to change without prior notice.

** The maximum speed in every country is limited according local traffic regulations.

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P/N of the user manual: PRS4001

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ELECTRIC VEHICLES

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P/N PRS4001

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